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Approach to . . .

This approach
advocates

targeting those
specific mental
states that
precede a

reduction of
performance
efficacy. A

number of
undesirable
neurocognitive

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Cognitive (mind wandering, effort withdrawal, perseveration, inattentional phenomena) are identified and mapped within a two-dimensional conceptual space encompassing task engagement and arousal.

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the foundations
and successes of
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combining

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Neuroergonomics to
enhance
efficiency and
safety.

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Neuroergonomics
is the
application of
neuroscience to

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ergonomics.

Traditional
ergonomic
studies rely
predominantly on
psychological
explanations to
address human
factors issues
such as: work
performance,
operational
safety, and work
place-related

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risks.

Neuroergonomics,
in contrast,
addresses the
biological
substrates of
ergonomic
concerns, with
an emphasis on
the role of the
human nervous
system.

Neuroergonomics

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- **Wikipedia**

Neuroergonomics
has two major
aims: to use
existing and
emerging
knowledge of
human

performance and
brain function
to design such
systems for
safer and more
efficient

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Cognitive, and
to advance
understanding of
human brain
function in
relation to
cognitive
processes and
performance in
real-world
tasks.

Neuroergonomics
| **Psychology**

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Wiki | Fandom

Neuroergonomic
research works
to use

neuroscience

methods, for
example neural
imaging, to

assess stress
during a task
and then figure
out how to
reduce this
stress and

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increase
productivity.
The core
philosophy
behind the field
is that the key
to understanding
how well someone
works, is to
analyze the very
thing that
allows them to
solve problems
in the first

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place, their
brain.

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Neuroergonomics
is an emerging
field that
investigates the
human brain in
relation to
behavioral

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performance in
natural and
synthetic
environments and
everyday
settings.

Neuroergonomics
research aims to
expand our
understanding of
the neural
mechanisms
underlying human
perceptual,

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Cognitive, and
motor
Neuroscience
functioning with
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a focus on real-
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world contexts.

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neuroscience
investigates the
emergence of
cognitive
function from

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the physical and
chemical
activity of
neurons in the
brain. Active
representations
in the brain
consist of
patterns of
neural activity,
processing takes
place through
the propagation
of activity via

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Excitatory and
inhibitory
connections, and
learning and
memory arise
primarily
through the
modification of
connections.

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Topics

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Cognitive
Neuroscience
Approach To
Raja

This discipline
has been
summarized by
Raja

Parasuraman, as
the “scientific
study of the
brain mechanisms
and
psychological
and physical
functions of
humans in
relation to

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technology, work
and
environments”.

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Neuroergonomics
constitutes a
paradigm shift
away from the
standard
reductionist

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Cognitive
neuroscience.
The
neuroergonomic
approach
maintains that
an understanding
of neural
processes
underlying human
behavior can
best be
understood by
investigating

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the underlying
interacting
brain networks
in the context
of carrying out
various real-
world tasks
under
investigation,
rather than
under reduced
isolated
conditions that
only occur in

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the laboratory.

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tion of

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fundamental,

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the field of
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neuroscience
related to human
factors.

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of Neuroscience,
Cognitive
Engineering, and
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proposes to
examine the
brain mechanisms
and underlying
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interaction in
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naturalistic
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representative
of work and in
everyday-life
situations.

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is an emerging
science that is
defined as the
study of the

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relation to
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paper provides a
critical review
of the
neuroergonomic
approach to
evaluating
physical and
cognitive work,

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particularly in
mobile settings.

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translational
approach that
merges elements

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